

## **Prospects of using immobilized cells of oil oxidizing microorganisms for purification of water from oil**

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### **Abstract**

© 2014 AENSI Publisher All rights reserved. Annotation. The possibility of intensifying the processes of oil destruction by immobilized cells of oil oxidizing microorganisms was studied. We showed that application of the husk of buckwheat and barley as the medium for immobilization of bacteria helps to expedite the biodegradation of oil in water, than when suspended cells are used. We found the dependence of the extent of water purification on airing and various temperature conditions of cultivation (+4, 20-22, 28° C).

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### **Keywords**

Culture, Destruction, Immobilization, Microorganisms, Oil, Sorbing agent